CONTENTS OF *ANIMAL REPRODUCTION SCIENCE*, VOLUME 22

VOL. 22 NO. 1 MARCH 1990

Buffalo fetal cotyledons contain certain factors that suppress compensatory ovarian hypertrophy in mice
R.B. Maurya and H.C. Pant (Mathura, India) 1
Oestradiol-17β in testis and jugular venous plasma of intact and hemi-castrated prepubertal lambs and in jugular venous plasma of castrated prepubertal lambs
G.S. Pope (Reading, Great Britain), J.M. Cunningham, N. Jenkins, G.M.H. Waites and G.E. Watts (Maidenhead, Great Britain) 9
Plasma testosterone in *Trypanosoma congolense*- and *Trypanosoma brucei*-infected West African dwarf rams
O. Adeyemo, A. Oyejide and O. Agbedana (Ibadan, Nigeria) 21
Effect of male odour on LH secretion and the induction of ovulation in seasonally anoestrous goats
R. Claus, R. Over and M. Dehnhard (Stuttgart, Federal Republic of Germany) 27
Concentrations of prolactin, LH and FSH after naloxone administration in follicular-phase gilts
S. Okrasa, R. Weigl, Mah Jeng and J. Tilton (Fargo, ND, U.S.A.) 39
Immunoactive relaxin in boar seminal plasma and its correlation with sperm motility
H.H. Juang, A.I. Musah (Ames, IA, U.S.A.), C. Schwabe (Charleston, SC, U.S.A.) and L.L. Anderson (Ames, IA, U.S.A.) 47
Boar sperm aminopeptidase: purification and partial characterization
K.S. Sidhu (St. Louis, MO, U.S.A.) 55
Immature and aberrant spermatozoa in the ejaculate of *Sus domesticus*
S. Bonet (Girona, Spain) 67

Guide for Authors 81

VOL. 22 NO. 2 APRIL 1990

Semen collection frequency and the energy metabolism of A.I. boars
B. Kemp, F.P. Vervoort, P. Bikker, J. Janmaat, M.W.A. Verstegen (Wageningen, The Netherlands) and H.J.G. Grooten (Helden, The Netherlands) 87
Characterization of cystic endometrial hyperplasia (CEH) in swine leukocyte antigen (SLA) miniature swine: serum hormone and endometrial estrogen receptor concentrations
C. Dutta, L.D. Stuart and P.K. Chakraborty (Bethesda, MD, U.S.A.) 99
Oxytocin plasma levels during spontaneous and cloprostenol-induced luteolysis in sows
G. Kotwica, L. Dusza, R. Ciereszko, S. Okrasa (Olsztyn, Poland) and D. Schams (Freising-Weihenstephan, Federal Republic of Germany) 109
Relative effectiveness of active immunization with follicular fluid and/or steroids in increasing ovulation rates in Romney ewes
K.M. Henderson, R.L. Ellen, A. Weaver, K. Ball and K.P. McNatty (Upper Hutt, New Zealand) 121
Ovarian follicular response of mares to an equine pituitary extract after suppression of follicular development
R.A. Pierson and O.J. Ginther (Madison, WI, U.S.A.) 131
Effect of subcutaneous melatonin implants on the seasonal attainment of puberty in female red deer (*Cervus elaphus*)
G.W. Asher (Hamilton, New Zealand) 145

Quick freezing of mouse embryos using ethylene glycol with lactose or sucrose
O. Abas Mazni, C.A. Valdez, Y. Takahashi, M. Hishinuma and H. Kanagawa (Sapporo, Japan) 161

VOL. 22 NO. 3 JUNE 1990

Characterization of ovarian activity in postpartum dairy cows during ultrasound imaging and progesterone profiles
R. Rajamahendran and C. Taylor (Vancouver, B.C., Canada) 171
Hormonal correlates of ovarian alterations in bovine freemartin fetuses
M.M. Dominguez, R.M. Liptrap, B.A. Croy and P.K. Basrur (Guelph, Ont., Canada) 181
Changes in the contents of buffalo cervical mucus during different phases of the oestrous cycle
M.M. Eltohamy (Cairo, Egypt), A.D. Zakaria (Alexandria, Egypt) and N.A. Taha (Cairo, Egypt) 203
Concomitant measurement of ovine placental lactogen, pituitary growth hormone and prolactin in maternal and fetal plasma of a pregnant ewe carrying an anencephalic fetus: a case report
Z.-R. Nie and J.S.D. Chan (Montreal, Que., Canada) 213
Control of oestrus in gilts. I. Management-induced puberty
J.P. Signoret, F. Martinat-Botté (Monnaie, France), F. Bariteau, Y. Forgerit (Rouille, France), C. Macar, A. Moreau (Paris, France) and M. Terqui (Monnaie, France) 221
Control of oestrus in gilts. II. Synchronization of oestrus with a progestagen, Altrenogest (Regumate): effect on fertility and litter size
F. Martinat-Botté (Monnaie, France), F. Bariteau, Y. Forgerit (Rouille, France), C. Macar, A. Moreau (Paris, France), M. Terqui and J. Signoret (Monnaie, France) 227
Maintenance of ovulatory cycles and pregnancy in prepubertal gilts treated with PMSG and hCG
U. Karalus, B.R. Downey (Ste Anne de Bellevue, Que., Canada) and L. Ainsworth (Ottawa, Ont., Canada) 235
Sensitivity of the hypothalamo–hypophyseal axis to the positive feedback effects of estrogen in ovariectomized anestrous and diestrous sows
G.W. Almond (Raleigh, NC, U.S.A.) and G.D. Dial (St. Paul, MN, U.S.A.) 243
Ethylenediaminetetraacetic acid (EDTA) and caffeine are antagonistic to antirelaxin serum inhibition of porcine sperm motility
H.H. Juang, A.I. Musah and L.L. Anderson (Ames, IA, U.S.A.) 253
Effect of acute and chronic administration of gonadotropin releasing hormone agonist, Buserelin, on serum chorionic gonadotropin, oestradiol-17β and progesterone during early pregnancy in the south Indian bonnet monkey (*Macaca radiata*)
A. Jagannadha Rao and R. Chakraborti (Bangalore, India) 261

VOL. 22 NO. 4 JULY 1990

Ovulatory responses to continuous administration of GnRH in nine-month-old prepubertal beef heifers
S.E. Dodson (Loughborough, Great Britain), B.J. McLeod (Maidenhead, Great Britain), G.E. Lamming and A.R. Peters (Loughborough, Great Britain) 271
Cell density, fluid volume and electrolyte content of bovine vulvar tissue during oestrus and dioestrus
N. Ezov, E. Maltz (Bet Dagan, Israel), R. Yarom (Jerusalem, Israel), G.S. Lewis (Blacksburg, VA, U.S.A.), D. Schindler, M. Ron, E. Aizinbud and A.R. Lehrer (Bet Dagan, Israel) 281

Naloxone antagonizes the morphine suppression of the oestradiol-induced surge of luteinising hormone in dairy cows
A.S. Nanda, W.R. Ward and H. Dobson (Neston, Great Britain) 289
The effect of oxytocin on progesterone secretion and of $PGF_{2\alpha}$ on oxytocin secretion from bovine luteal and granulosa cells in culture
J. Barrett and D.C. Wathes (Bristol, Great Britain) 297
Differences in gonadotrophin secretion post partům between Zebu and European breed cattle
M.J. D'Occhio, A. Neish and L. Broadhurst (Rockhampton Mail Centre, Qld., Australia) 311
The correlation between the viability of bovine spermatozoa preserved at ambient temperature and the activity of transferases
O.I. Azawi, M.M. Znad and L.H. Al-Jarrah (Mosul, Iraq) 319
Prostaglandin E_2 and progesterone during the estrous cycle of the pig
L.A. Bell, T. Gimenez, J.R. Diehl (Clemson, SC, U.S.A.) and P.K. Chakraborty (Bethesda, MD, U.S.A.) 325
Effects of aminoglutethimide phosphate administration on embryonic development and implantation and on steroid hormone levels in superovulated rats
I. Ishibashi, I. Hashimoto, S. Suzuki and M. Kosaka (Towada City, Japan) 339
Seasonal patterns in the pheromonal regulation of oestrous cyclicity in wild mice, *Mus musculus domesticus*
S.C. Pandey and S.D. Pandey (Kanpur, India) 349

Author Index 353

Subject Index 357